# BAY AREA UASI
# FY 2012 PROJECT PROPOSAL FORM

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## I. BACKGROUND INFORMATION

| I.A. Requestor Contact Information | |
|---|---|
| Name | Thomas Feledy |
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| Agency | San Francisco Police Department |
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| I.B Operational Area Review |
|---|
| |

| I.C Project Name |
|---|
| Remote Pilot Video Camera |

| I.D. Total Project Cost | Annual Sustainment Costs |
|---|---|
| $100,000 | $0 |

| I.E MISSION AREAS<br>Place an X in the box(s) that correspond to the mission area your project supports | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| X | **Prevent** | X | **Protect** | X | **Respond** | X | **Recover** | X | **Mitigation** |
| **I.E Description** - ***Briefly describe exactly what the project entails and what would be accomplished by funding the project. Describe what, if any, existing capabilities the Bay Area Region currently has in place concerning this project such as any plans developed, training delivered, or equipment purchased, etc.*** | | | | | | | | | |
| The project involves the deployment of mobile compact video cameras in the visual and infrared spectrum, mounted on small remotely pilot vehicles (RPV's) to provide live overhead views of critical infrastructure before events for response and exercise planning, during events to enhance command and control, or after events to assess damage, reduce hazards to responders, coordinate rescue efforts – and when outfitted with appropriate detectors, transmit real-time, geo-coded data to command centers for chemical, biological, or radiation contamination of targeted areas or infrastructure. | | | | | | | | | |

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## II. ALIGNMENT WITH THE BAY AREA HOMELAND SECURITY STRATEGY

| II.A BAY AREA SECURITY GOALS AND OBJECTIVES<br>*Check the Bay Area goal(s) that this project supports.* (check one or more) | | |
|---|---|---|
| 1 | ☐ | Develop a Regional Risk Management and Planning Program |
| 2 | ☐ | Enhance Information Analysis and Infrastructure Protection Capabilities |
| 3 | ☒ | Strengthen Communications Capabilities |
| 4 | ☐ | Strengthen Chemical, Biological, Radiological, Nuclear, and Explosives (CBRNE) Detection, Response, and Decontamination Capabilities |
| 5 | ☐ | Enhance Medical and Public Health Preparedness |
| 6 | ☐ | Strengthen Emergency Planning and Citizen Preparedness Capabilities |
| 7 | ☐ | Enhance Recovery Capabilities |
| 8 | ☐ | Enhance Homeland Security Exercise, Evaluation and Training Programs |

**II.B** List each Objective and Implementation Step (by number) from the Bay Area Homeland Security Strategy the project supports, and explain how the project supports the Objective and addresses gaps from the 2011 regional capability assessment.

| OBJECTIVE | IMPLEMENTATION STEP(S) | EXPLAIN HOW THE PROJECT SUPPORTS IMPLEMENTATION OF THE OBJECTIVE | EXPLAIN WHICH GAP(S) FROM THE 2011 REGIONAL CAPABILITIES ASSESSMENT THIS PROJECT WILL HELP ADDRESS. |
|---|---|---|---|
| 3.1 Strengthen Communic-ations capabilities | 3.1-E4 Other authorized communications equipment (e.g., equipment that allows for voice operability, voice interoperability, and then data) as mutually agreed upon by all partners. | • **Prior to events,** aerial cameras will be used by field units to record current vertical images of infrastructure to assess targeting and plan response tactics in event of terrorist attack.<br>• **During events,** aerial cameras will be used by response teams to assess large areas and high-rise structures such as office buildings or high-voltage lines, monitor large special events, traffic, and search operations to provide intelligence to incident commanders for | • Natural Threats, Relevance Rank #3 - **Critical Infrastructure Protection** – Needs Extra Attention<br>• Intentional/Terrorism Threats, Relevance Rank #3 **Critical Infrastructure Protection** – Needs Extra Attention<br>• Natural Threats, Relevance Rank #1 **Communications** -Needs Attention<br>• Natural Threats, Relevance Rank #4 **Emergency Operations Center Management** - Needs Attention<br>• Intentional/Terrorism Threats, Relevance Rank #8 **Emergency Operations Center Management** - Needs Attention<br>• Intentional/Terrorism Threats, Relevance Rank #10 **On-site Incident Management** – Needs Extra Attention |

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|---|---|---|---|
| | | optimum asset deployment and to stream live video back to regional command centers, regardless of location, for better unified decision-making.<br>• The aerial camera will provide immediate visual information of **extent of damage, number and location of casualties**, and presence of possible **secondary devices** or hot spots.<br>• The aerial camera will provide live video of areas suspected of **contamination** without exposing personnel to **hazards** on the ground or in the air, or activating **secondary devices** that detect ground movement.<br>**During joint exercises**, aerial cameras will allow **overhead viewing and recording** of live video for immediate or subsequent evaluation by facilitators, and for use in future training of responders | • Intentional/Terrorism Threats, Relevance Rank #11 Responder Safety and Health – Needs Extra Attention |

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## III. FUNDING

| III.A Provide the proposed funding amount to be obligated from this Investment towards Planning, Organization, Equipment, Training, and Exercises (POETE) elements. *(Please check the appropriate box(es) on the left side for all that apply). Also, for each funding area selected, provide a brief narrative below describing the items or services being funded.* | | |
|---|---|---|
| **ELEMENT** | | **PROPOSED FUNDING** |
| ☐ | Planning | $ |
| ☐ | Organization | $ |
| ☒ | Equipment | $ 100,000 |
| ☐ | Training | $ |
| ☐ | Exercises | $ |
| **TOTAL PROJECT COSTS** | | **$ 100,000** |

| If applicable, provide the proposed funding amount from the project that can be obligated towards Law Enforcement Terrorism Prevention Activities (LETPA) funding. |
|---|
| $ |

| Planning |
|---|
| |

| Organization |
|---|
| |

| Equipment. List the equipment and the Authorized Equipment List number from the www.rkb.us website |
|---|
| **AEL Reference Number 03OE-07-RPVS (remotely piloted vehicles**<br>**AEL Reference Number 03SR-05-RBTL (attachments and tools for RPV's)** |

| Training |
|---|
| |

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| Exercises |
|---|
| |

| III.B Other Source(s) of funding that is being requested or utilized for this project *(check the appropriate box(es) on the left side)* | | |
|---|---|---|
| **FUNDING SOURCE** | | **PROPOSED FUNDING** |
| ☐ | SHSP | $ |
| ☐ | CCP | $ |
| ☐ | MMRS | $ |
| ☐ | General Funds | $ |
| ☐ | Other Grant Funds | $ |
| **TOTAL OTHER FUNDING** | | **$0** |

| Other Funds: Explain how any non-UASI funds, such as general funds, SHSP, ASPR grants, etc., will be used to implement this project. |
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**III.C For each selected Strategy Objective(s)/Target Capability listed in Question II.B., provide the proposed funding amount to be obligated from this project. The total funding listed for all Objectives/Capabilities should equal the total funding for the project**

| STRATEGY OBJECTIVE/TARGET CAPABILITIES (CAPABILITIES SELECTED MUST MATCH WITH SECTION II.B.) | AMOUNT OF FUNDING PER OBJECTIVE/CAPABILITY | | |
|---|---|---|---|
| | 3.1 | | |
| Planning | | | |
| Communications | $100,000 | | |
| Community Preparedness and Participation | | | |
| Risk management | | | |
| Intelligence and Information Sharing and Dissemination | | | |
| Information Gathering and Recognition of Indicators and Warnings | | | |
| Intelligence Analysis and Production | | | |
| Counter-Terror Investigation and Law Enforcement | | | |
| CBRNE Detection | | | |
| Critical Infrastructure Protection | | | |
| Food and Agriculture Safety and Defense | | | |
| Epidemiological Surveillance and Investigation | | | |
| Laboratory Testing | | | |
| On-Site Incident Management | | | |
| Emergency Operations Center Management | | | |
| Critical Resource Logistics and Distribution | | | |
| Volunteer Management and Donations | | | |
| Responder Safety and Health | | | |
| Emergency Public Safety and Security | | | |
| Environmental Health | | | |
| Explosive Device Response Operations | | | |
| Fire Incident Response Support | | | |
| WMD and Hazardous Materials Response and Decontamination | | | |

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| III.C For each selected Strategy Objective(s)/Target Capability listed in Question II.B., provide the proposed funding amount to be obligated from this project. The total funding listed for all Objectives/Capabilities should equal the total funding for the project | | | |
|---|---|---|---|
| **STRATEGY OBJECTIVE/TARGET CAPABILITIES (CAPABILITIES SELECTED MUST MATCH WITH SECTION II.B.)** | **AMOUNT OF FUNDING PER OBJECTIVE/CAPABILITY** | | |
| | **3.1** | | |
| Citizen Evacuation and Shelter-in-Place | | | |
| Isolation and Quarantine | | | |
| Search and Rescue (Land-Based) | | | |
| Emergency Public Information and Warning | | | |
| Emergency Triage and Pre-Hospital Treatment | | | |
| Medical Surge | | | |
| Medical Supplies Management and Distribution | | | |
| Mass Prophylaxis | | | |
| Mass Care (Sheltering, Feeding, and Related Services) | | | |
| Fatality Management | | | |
| Structural Damage Assessment | | | |
| Restoration of Lifelines | | | |
| Economic and Community Recovery | | | |
| **Total** | **$100,000** | | |

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## IV. Project Impacts and Outcomes

**IV.A Project Outcomes: Describe the regional outcomes and benefits that will be achieved as a result of this project. When describing the regional outcomes and benefits, describe the number of operational areas in the region that will directly benefit from this project. The outcomes and benefits should demonstrate improvement towards building or maintaining capabilities and reducing risk.**

- Funding this project will create a capability for rapid overhead viewing of potential and actual target areas with **minimal risk** to providers that **currently does not exist** in any of the 12 operational areas in the region. All 12 operational areas in the region presently rely on aircraft piloted and maintained by a few local law enforcement agencies, or by state and federal agencies, along with news media, when present, to provide critical live overhead video images to command centers.
- The **cost** of operating the new generation of quad-rotor RPV's proposed here is less than 1% of the cost of purchasing, operating and maintaining full-size aircraft. The RPV proposed operates on rechargeable batteries. It requires no expensive fuels or maintenance and costs only pennies to operate.
- The **risk to responding personnel and the public** from operating these small, battery-operated RPV's is negligible when compared to the risk of an airplane or helicopter crash in an urban area.
- The small size and modular construction of the new generation of quad-rotor RPV's makes them **easily deployable** throughout all 12 areas of the region at a moment's notice. The entire craft, extra batteries, and control tablet-PC fit into a single well-padded 2-foot square case, and can be loaded by one person into a vehicle trunk for transport throughout the region.
- The **map-based software user interface** on a **ruggedized tablet computer** requires **minimal training** for operators. In contrast to full-size aircraft which require pilots and mechanics with years of training specifically assigned to dedicated air units, acquisition of the proposed RPV significantly expands the range of agencies which can operate an air asset, enabling officers from different agencies in the region to quickly learn to deploy the RPV with minimal training in their operational area.

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## V. Project Management

| V.A Identify up to ten milestones, with start and end dates, which will be achieved within the twenty month (20) period of performance under the FY 2012 UASI grant. No start date should begin before January 1, 2013 and no end date should end after September 30, 2014. | | | |
|---|---|---|---|
| **Milestone Number** | **Milestone Name/Description** | **Start Date (mm/dd/yyyy)** | **End Date (mm/dd/yyyy)** |
| 1 | Prepare requisition for RPV | 10/01/2012 | 01/15/2013 |
| 2 | Obtain OCA approval | 01/16/2013 | 03/31/2013 |
| 3 | Conduct the bid process | 04/01/2013 | 04/30/2013 |
| 4 | Order RPV from selected vendor | 05/01/2013 | 05/30/2013 |
| 5 | Obtain FAA COA | 06/01/2013 | 06/30/2013 |
| 6 | Take delivery and receive vendor training | 09/01/2013 | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |

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| V.B Project Status. Place an X in the corresponding box: | |
|---|---|
| ☐ | This project is a maintenance project. |
| ☒ | This project is a self-contained project. |
| ☐ | This project is part of an ongoing initiative. |
| **Explain how funding for this project will either maintain a capability in the region, complete a self-contained project, or complete a larger initiative or a phase of a larger initiative of which this project is a part of? Explain how the project will result in completion.** | |
| This is a self-contained project, consisting of acquisition of one fully equipped RPV. The RPV will be delivered fully equipped to our specifications, and vendor training will be provided as part of the purchase. The project is completed at the end of training. | |

| **V.C Sustainment: Describe the long-term approach to sustaining the capabilities maintained or enhanced by this project without UASI funds once the grant performance period is over. To the extent funds are needed for sustainment in the future, will future grants be needed for sustainment or will local funds be used? If no funds are needed, explain why.** |
| --- |
| No additional grant funding is needed other than equipment and vendor-based training for completion of this project.<br>Operating costs consist of one person who deploys and then operates the RPV at the request of incident commanders. The RPV operates on rechargeable batteries, the use of which incurs negligible costs which, along with personnel costs, will be absorbed by the SFPD.<br>The RPV and associated parts are designed to be modular and maintenance free for their lifetime. Any repair or parts replacement due to inadvertent damage is expected to be minimal and will be absorbed by SFPD. |

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